

# PSpice Model

## ESD Protection Diode

### VISHAY

### SMBJ20CAHE3



#### Model Information

**Model** A macro model based on general SPICE diode model  
**Call Name** MDC\_SMBJ20CAHE3\_PS  
**Pin Assign** 1:A 2:C  
**File List** Model Library MDC\_SMBJ20CAHE3\_PS01.lib  
 Model Report MDC\_SMBJ20CAHE3\_PS.pdf (this file)

**Verified Simulator Version** PSpice version 16.6  
**Note**

#### References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 06-Feb-14
- Product name SMBJ20CAHE3
- Company name Vishay Intertechnology, Inc.
- Characteristics IrVr(Breakdown)

#### Simulation Range

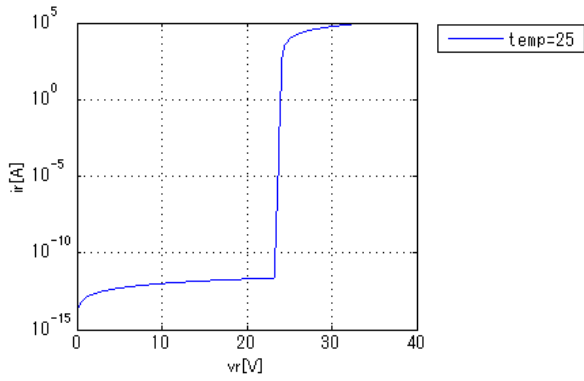
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Reverse Voltage	0	to	46.7	V
Temperature	-55	to	150	deg C

Simulation results are following.

Explanatory notes — : simulated

### IrVr(Breakdown)



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MoDeCH Inc.

Head Office

Location: Mitsuseimei Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail: [model-on-support@modech.co.jp](mailto:model-on-support@modech.co.jp)

URL: <http://www.modech.com/en/>